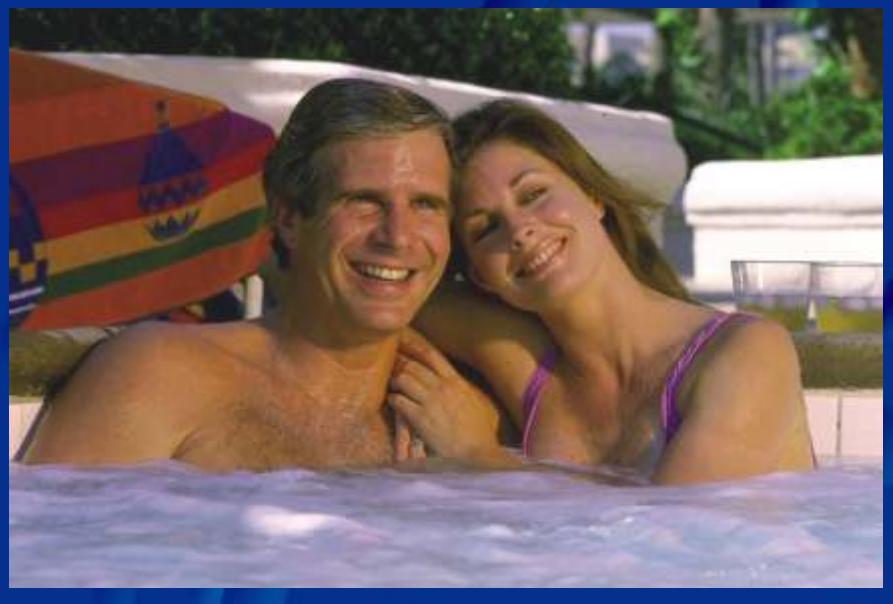


Premium  
Leisure  
Products



## Owner's Manual



# Table Of Contents

	Page
<b>Introduction</b>	<b>i</b>
<b>Important Safety Instructions</b>	<b>1-2</b>
<b>Choosing A Location</b>	<b>2-3</b>
<b>Power Requirements</b>	<b>3-7</b>
<b>Start-Up Instructions</b>	<b>8-10</b>
<b>Programming filtration Cycles</b>	<b>11</b>
<b>Error Identification</b>	<b>11</b>
<b>Troubleshooting</b>	<b>12-13</b>
<b>Spa Care and Maintenance</b>	<b>14-15</b>
<b>Water Quality and Maintenance</b>	<b>16-19</b>
<b>Spa Care and Maintenance Record</b>	<b>20</b>
<b>Wiring Diagrams Cs6200 &amp; CS6230</b>	<b>21-22</b>
<b>Warranty</b>	<b>23</b>
<b>Warranty Card</b>	<b>24</b>



**P R E M I U M   L E I S U R E   P R O D U C T S**  
**13055 49th St. N.**  
**Clearwater, Florida 33762**  
**(727) 573-9611**

Part Number 7619

# Introduction

Please take time to read this manual before you install and operate your spa. This manual will acquaint you with the operating features, installation procedures, maintenance requirements, and safety procedures needed to ensure an enjoyable experience right from the start. The Manufacturer has tried to anticipate all of your needs and desires; however, if you need any additional information, feel free to call your authorized dealer.

**WARNING!** This manual was written to ensure the proper use and installation of these spas. Any modifications to the procedures outlined in this manual may result in voiding your warranty. Please take the time to read this manual to avoid any unnecessary problems with your brand new spa and equipment.

THIS MANUAL AND ITS CONTENTS ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALTHOUGH THE MANUFACTURER HAS PREPARED THIS MANUAL TO BE AS ACCURATE AND PRECISE AS POSSIBLE, THEY ARE NOT LIABLE FOR LOSS, INJURY OR DAMAGES CAUSED BY IMPROPER INSTALLATION OR USE OF SPA (IMPROPER OR OTHERWISE).



This Manual Covers The Following Spa Models

510, 610, 710, 810, 910 and 1010

Date Purchased: \_\_\_\_\_

Date Installed: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

Dealer Address: \_\_\_\_\_

Dealer Telephone: \_\_\_\_\_

Spa Model and Serial Number: \_\_\_\_\_

MANUFACTURER RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

# IMPORTANT SAFETY INSTRUCTIONS

When installing your spa and using this equipment, basic safety precautions should always be followed and include the following:

- **READ AND FOLLOW ALL INSTRUCTIONS!** The following instructions are required by UL 1563 standards. These instructions contain important safety information we that strongly urge you to read and apply.
- **DANGER - TO REDUCE THE RISK OF INJURY:** Do not permit children to use spa unless they are closely supervised at all times.



## WARNING SIGN MUST BE POSTED

The WARNING sign (RED) above is packed with your new spa. This sign must be posted in a prominent place in close proximity to the spa installation site immediately upon completion of spa installation.

- **WARNING SIGN** - It is extremely important that this sign be permanently placed in clear view of any persons using the spa. Occasional spa users may not be aware of some of the dangers hot water poses to pregnant women, small children, and people under the influence of alcohol. If you did not receive a warning sign or your sign has become damaged, please contact your spa dealer or manufacturer.
- **DANGER** - A wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4mm<sup>2</sup>) solid copper conductor between unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit, if that item is located within 5 feet (1.5m) of the unit. For Canada No. 6 AWG.
- **DANGER - RISK OF ACCIDENTAL DROWNING:** Extreme caution must be exercised at all times, to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use spa unless they are supervised at all times. Cover spa and use safety locks to prevent accidents.
- **DANGER - TO REDUCE THE RISK OF INJURY:** The suction fittings in the spa are sized to match the specific water flow created by the pump/pumps. Should the need arise to replace the suction fittings or the pump/pumps be sure that the flow rates are compatible.
- **DANGER - RISK OF ELECTRICAL SHOCK:** Install spa at least 5 feet (1.5m) from all metal surfaces. As an alternative, a spa may be installed within 5 feet (1.5m) of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4mm<sup>2</sup>) solid copper conductor to the wire connector on the terminal box that is provided for this purpose. For Canada No. 6 AWG. Do not permit any electrical appliance, such as a light, telephone, radio or television within 5 feet (1.5m) of the spa, unless factory installed.
- Position spa to provide proper drainage of the compartment for electrical components.
- For floor recessed spas, install to permit access for servicing from above or below floor.
- **NEVER USE AN EXTENSION CORD!**
- Consideration should be taken for water splash out. Water can ruin wood floors and some finishes.
- **DO NOT** use a wall switch, ground fault circuit interrupter, circuit breaker, fuse, for plugging and unplugging the spa as a means of turning your spa on or off, for normal everyday use.
- **DO NOT** block access door.
- Set the spa on a firm level (flat) surface. **DO NOT** set spa on blocks as structural damage may occur to spa.

# IMPORTANT SAFETY INSTRUCTIONS

- **FOR SPAS EQUIPPED WITH AUDIO COMPONENTS:**

**CAUTION** - Risk of electrical shock. Do not leave compartment door open.

**CAUTION** - Risk of electrical shock. Replace components only with identical components.

Do not operate the audio controls while inside the spa.

**WARNING** - Prevent Electrocution. Do not connect auxiliary components (for example cable, additional speakers, headphones, etc.) to the system.

These units are not provided with an outdoor antenna, where provided the spa should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA70.

Do Not service this product yourself as opening or removing covers may expose you to dangerous voltage or either risk of injury. Refer all service to qualified service personnel.

When the power supply connections or power supply cord(s) are damaged; if water is entering the audio compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are other potential damage to the unit, turn off the unit and refer service to a qualified service technician.

- **WARNING** - To reduce the risk of injury. The water in a spa should never exceed 40° C (104° F). Water temperatures between 38° C (100° F) and 40° C (104° F) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

- Since excessive water temperatures have a high potential for causing fetal damage during early pregnancy, pregnant or possibly pregnant women should limit water temperatures to 38° C (100° F). Before entering a spa, the user should test the water temperature with an accurate thermometer. The tolerances of water temperature-regulating devices vary. The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning. Persons suffering from obesity, medical history or heart disease, low/high blood pressure, circulatory system problems, or diabetes, should consult a physician before using a spa. Persons using medication should consult a physician before using a spa because some medications induce drowsiness while others may affect heart rate, blood pressure and circulation.

## HYPERTHERMIA

Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows:

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F (37° C). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include.

- Unawareness of impending hazard;
- Failure to perceive heat;
- Failure to recognize the need to exit spa;
- Physical inability to exit spa;
- Fetal damage in pregnant women; and
- Unconsciousness and danger of drowning.

## CHOOSING A LOCATION

**IMPORTANT:** Due to the combined weight of the spa, water and users, it is extremely important that the spa base upon which the spa rests be a smooth, flat and level surface capable of uniformly supporting this weight, without shifting or settling, for the entire time the spa is in place. If the spa is placed on a surface which does not meet these requirements, damage to the skirt and/or the spa shell may result. Damage caused by improper support is not covered under warranty. It is the responsibility of the spa owner to assure the integrity of the support at all times. It is strongly recommended that a qualified licensed contractor prepare the foundation for your spa.

The manufacturer recommends a poured, reinforced concrete slab with a minimum thickness of 4 inches (10cm). Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined above. The spa must be installed in such a manner as to provide drainage away from the spa. Placing the spa in a depression without provisions for proper drainage could allow rain, overflow and other casual water to flood the equipment and create a wet deck. Install the spa to permit access to the equipment, either from above or below, for servicing. Make certain that there are no obstructions which would prevent removal of the cabinet side panels and access to the jet components, especially on the side with the equipment bay doors.

# CHOOSING A LOCATION

## Outdoor Location

In selecting the ideal outdoor location for your spa, we suggest that you take into consideration:

1. The proximity to changing area and shelter (especially in colder weather conditions).
2. The pathway to and from the spa (free of debris, dirt, leaves as not to be tracked into spa).
3. The closeness to trees and shrubbery (leaves and birds could create extra work).
4. A sheltered environment (less wind, weather exposure resulting in lowered operation and maintenance costs).
5. The overall enhancement of your environment. It is preferable not to place the spa under an unguttered roof overhang since run-off water will shorten the life expectancy of spa cover.

## Indoor Location

Be sure your spa will fit into the space you have chosen. Proper access into the home is needed to move the spa into place.

Ventilation may be needed because of the humidity from the spa. In most cases a spa cover is sufficient. Be sure to check the load carrying capabilities of the floor on which you will be installing your spa as most homes meet the requirement of 80lbs per square foot (Manufacturer not responsible). Insure you have proper drainage in the event of a leak or water spill (Manufacturer not responsible). In case of maintenance problems, leave enough room around the spa for service work. Choose a proper flooring area for the spa.

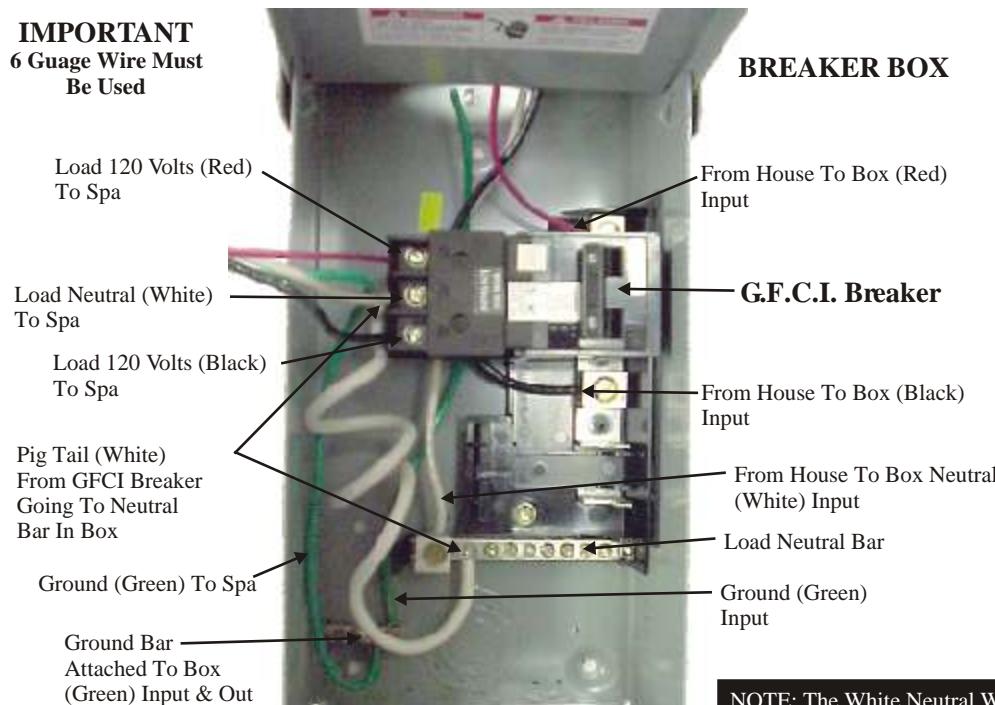
## POWER REQUIREMENTS

MODEL	VOLTS	AMPS	AMP LOAD	MARKING	APPLICATION
510	120	20	16	12/3 Cord w/GFCI	HYDROQUIP CS6200
510	240	50	40	3 Wire #6 + Grd 3	HYDROQUIP CS6200
610	240	60	48	3 Wire #6 + Grd 3	HYDROQUIP CS6230
710	240	60	48	3 Wire #6 + Grd 3	HYDROQUIP CS6230
810	240	60	48	3 Wire #6 + Grd 3	HYDROQUIP CS6230
910	240	60	48	3 Wire #6 + Grd 3	HYDROQUIP CS6230
1010	240	60	48	3 Wire #6 + Grd 3	HYDROQUIP CS6230

**WARNING - ALWAYS USE A CERTIFIED ELECTRICIAN WHEN HOOKING UP YOUR NEW SPA.**

### 240 VOLT CONNECTION (ALL MODELS)

**IMPORTANT**  
6 Gauge Wire Must  
Be Used



NOTE: The White Neutral Wire from the GFCI MUST be connected to an incoming Line Neutral. The internal mechanism of the GFCI requires this Neutral connection. The GFCI WILL NOT WORK WITHOUT IT.

## MODEL 510

(see wiring diagram page 21)

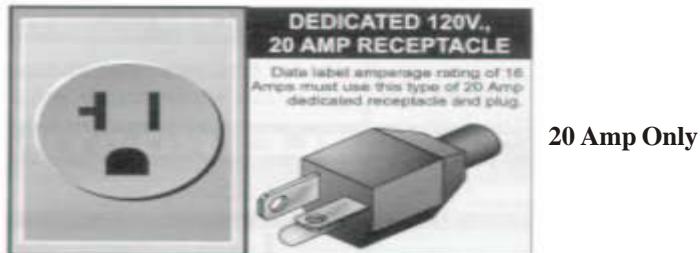
**Model 510**, as it comes from the factory is designed for 120 Volts, 20 Amp Circuit. The spa is also convertible to a 240 Volt, 40 Amp System. The circuit must have a neutral wire and ground wire when converting the spa wiring to 240 Volts, 40 Amp using a minimum AWG 6/3 wires with ground (see page 3). The wiring must be connected to a grounded type G.F.C.I. (Ground fault circuit interrupter) electrical service with copper conductor. This must be a separate circuit having no other appliances connected to the same circuit. To determine the current and voltage and wire size required, refer to section POWER REQUIREMENTS page 3. A qualified electrician should be used to ensure the necessary wiring and equipment for converting to this application.

### ELECTRICAL PRECAUTIONS

1. Make sure the line cord does not lay across a walkway or in a heavily traveled area.
2. Do Not use electrically connected devices, such as a TV, radio or cooling devices within 5 feet of the spa when being used. If electrical devices are used within 5 feet of the spa, they must be a G.F.C.I. Protected breaker/outlet.
3. All fixed metal objects located within 5 feet of the spa such as a fence post, railing, door frames, gutters must be attached to the grounding bar by the outside of the electrical control pack, using #8 solid copper wire. (for Canada #6 wire).

### 120 VOLT CONNECTION

Your spa equipment requires a dedicated circuit 3-20 prong receptacle. No other appliances or lights can be on this circuit.



**120 Volt System requires a three wire electrical service including the ground, consisting of LINE 1 (Black), Neutral (White), and Ground (Green).**

### 240 VOLT CONNECTION

(see pages 3, 5, 6)

### ELECTRICAL WIRING INSTRUCTIONS

(see page 7)

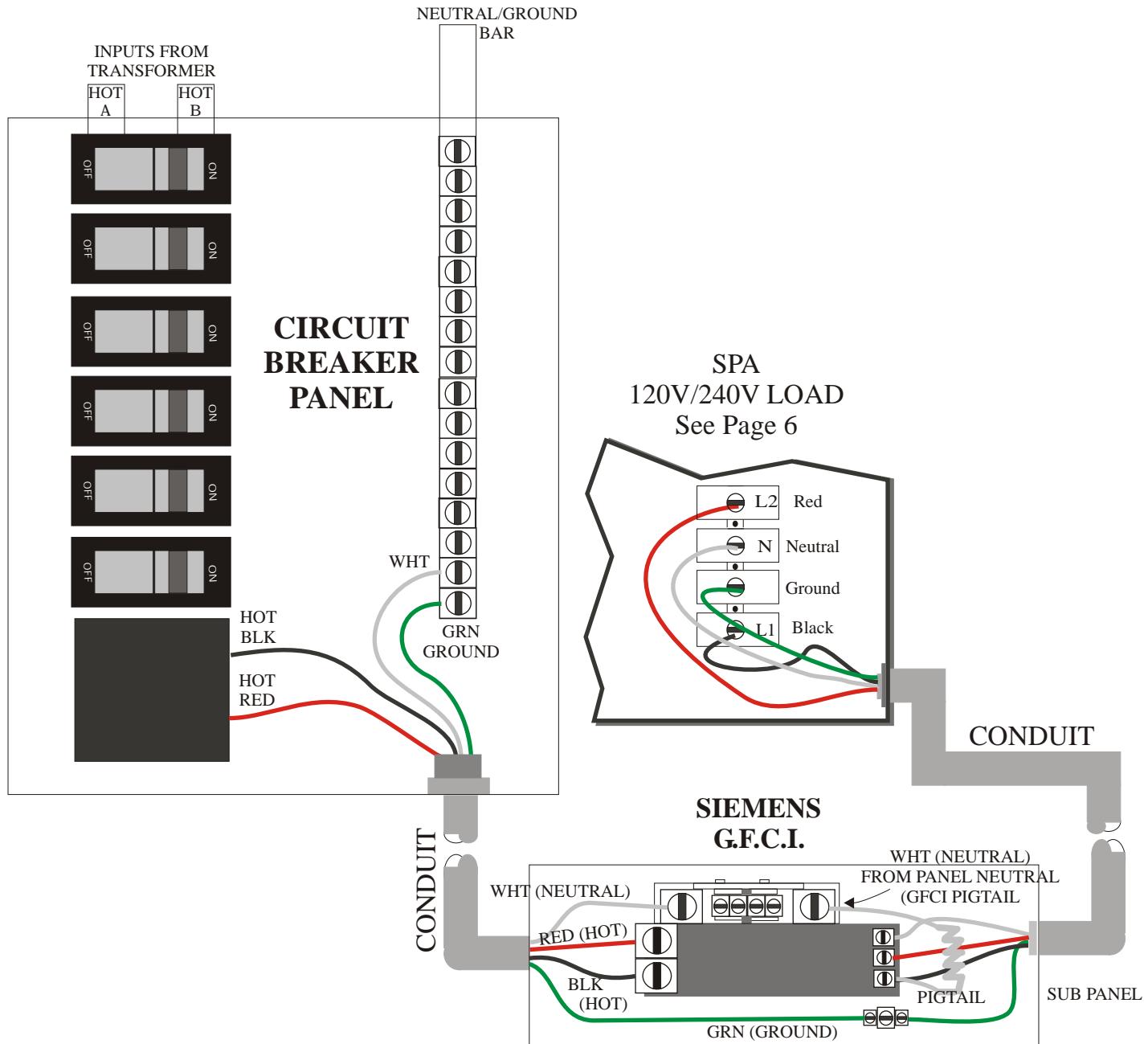
### VOLTAGE CONVERSION INSTRUCTIONS ( see wiring diagram, page 21).

**WARNING** - Disconnect all electrical power to the equipment before attempting any conversion procedures.

1. Remove door panel of the spa
2. Remove front panel of the equipment control box and locate the power terminal compartment.
3. Remove and discard 120 Volt Power Cord with G.F.C.I. Plug. Never use 120 Volt power cord for 240 Volt application.
4. Remove Jumper L2-N on terminal block. (See Page 20)
5. Reconnect circuit board Jumper J1 to the left position (HC). With Jumper 1 to the left position heater will run on low and high speed pump. With Jumper J1 to the right position heater will run on low speed pump only.

# 240 VOLT POWER REQUIREMENTS

## G.F.C.I. HOOK-UP DIAGRAM



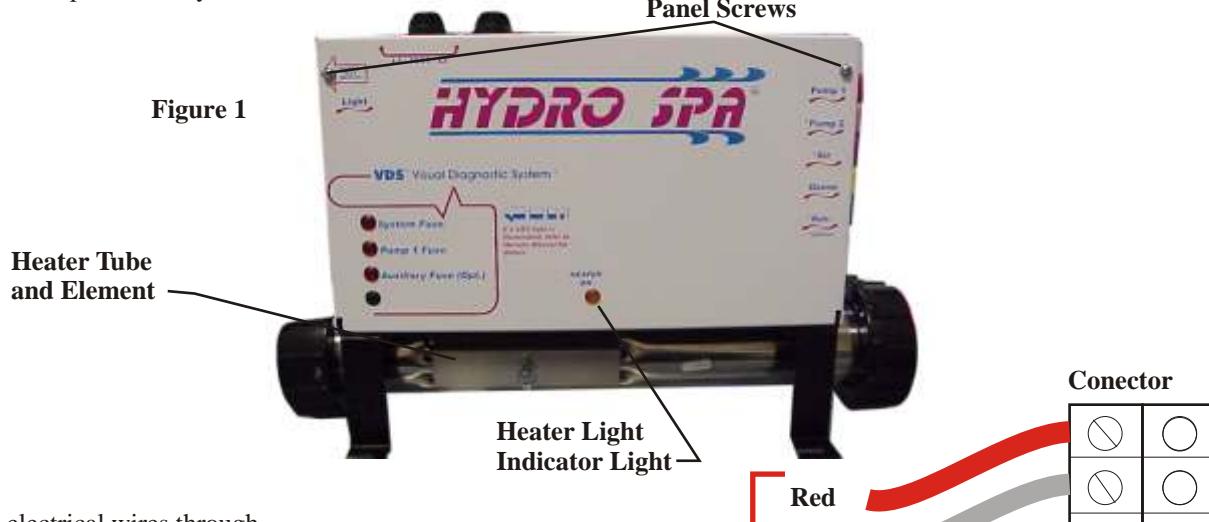
# CONTROL SYSTEM DIAGRAM

(see wiring diagrams pages 21-22)

## CS6230/CS6200 Control Equipment Pack System Wiring Directions

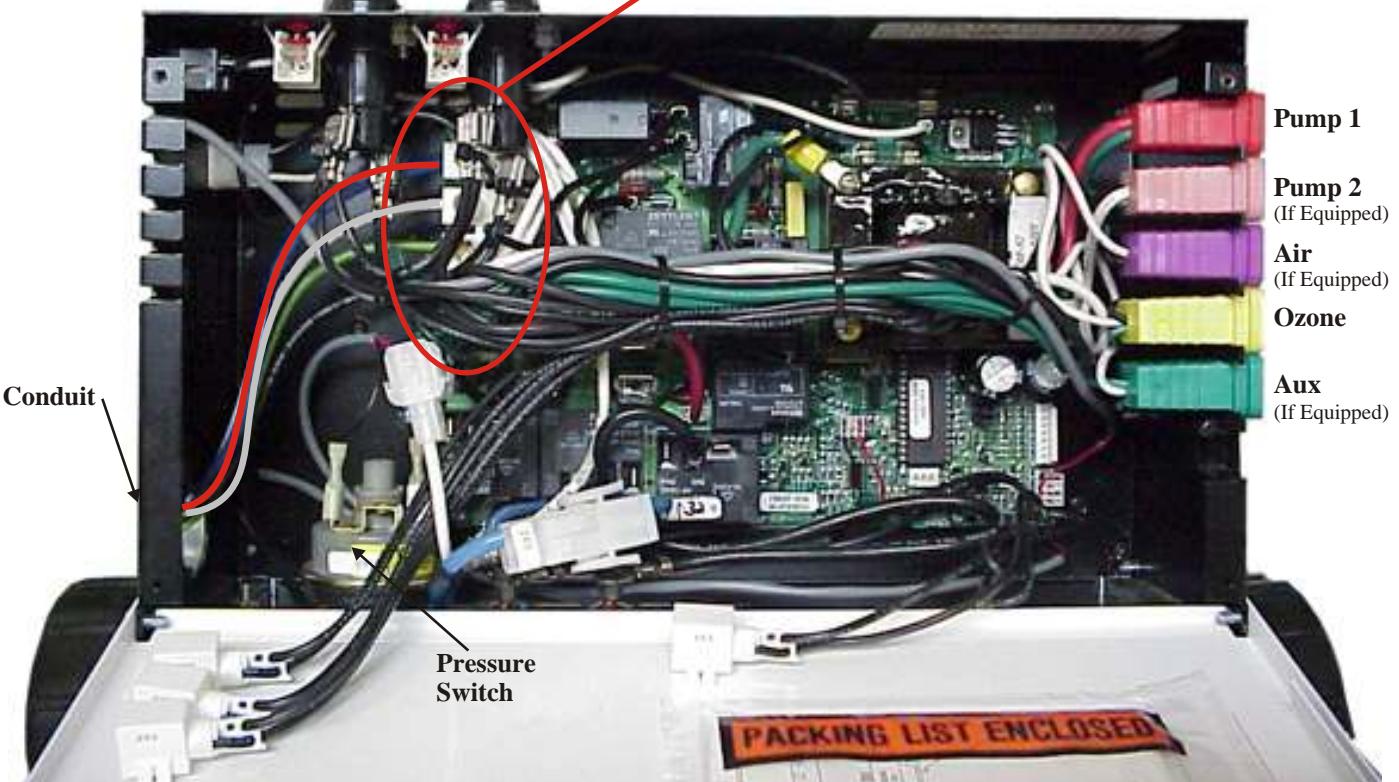
Remove 2 screws from cover panel figure 1 and open carefully and set aside.

Figure 1



Route the electrical wires through conduit of the equipment pack and attach wires as shown in figure 2 to proper connectors.

Figure 2



**WARNING: FILL THE SPA WITH WATER BEFORE TURNING THE POWER ON.**

Once your spa has been filled with water, turn it on and test all of the circuit breakers.

# ELECTRICAL WIRING INSTRUCTIONS

**IMPORTANT NOTICE:** The electrical wiring of this spa must meet the requirements of the National Electrical Code (NEC) and any applicable state or local codes. The electrical circuit must be installed by a qualified electrician and approved by a local building/electrical inspection authority.

1. This spa must be permanently connected (hard-wired) to the power supply. No plug-in connections or extension cords are to be used in conjunction with the operation of this spa. Supplying power to the spa which is not in accordance with these instructions will void both the ETL testing agency listing and the manufacturer's warranty.
2. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
3. To determine the current and voltage and wire size required, refer to section "Power Requirements" (Page 3).

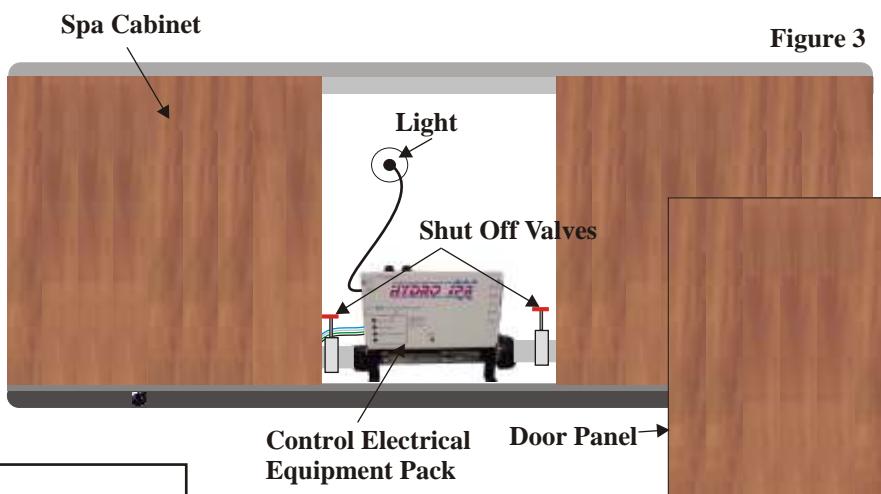
Wire size must be appropriate per NEC and/or local codes.

We recommend type THHN wire

All wiring must be copper to ensure proper connections. Do not use aluminum wire.

When using wire larger than #6 (10mm<sup>2</sup>), add a junction box near the spa and reduce to short lengths of #6 (10mm<sup>2</sup>) wire to connect to spa.

4. The electrical supply for this product must include a suitably rated circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code., ANSI/NFPA 70. The disconnecting means must be readily accessible to the spa's occupant but installed at least 5 feet (1.5m) from spa water.
5. The electrical circuit supplied for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42.
6. To gain access to the spa's power terminal block, remove the screws and cabinet panel setting it aside figure 3 (Page 7), then remove the securing screws from the panel figure 1, (Page 6) from the control equipment pack system.
7. A cable grommet (outlet) is located on the left side of the spa cabinet box. If necessary you can drill a cable hole through either the bottom or right side of the spa cabinet to meet cable connection to control box.
8. Connect wires, color to color, on terminal blocks as figure 2 (Page 6 ), TIGHTEN SECURELY! All wires must be hooked up securely or damage could result.
9. Install control box door panel with screws and reinstall the cabinet side panels.



**SAMPLE ONLY  
OF SHUT OFF VALVES.  
CONTROL ELECTRICAL  
EQUIPMENT PACK MAY  
BE LOCATED IN DIFFERENT  
LOCATION INSIDE CABINET.**

# START-UP INSTRUCTIONS

## FILLING THE SPA

Clear all debris from inside the spa. At the factory your spa shell was cleaned and polished but you may want to treat it with a specially formulated spa cleaner available from your dealer prior to filling it for the first time.

Make sure the spa has been installed correctly, including electrical wiring connections as specified in the wiring diagram, and that the spa is level.

**Do Not Over Fill.** Never fill your spa with water from a water softener, or use hot water while filling. Be certain that your spa drain is shut off. Remove your filter lid. Place your garden hose into the filter housing and begin filling with clean water see (figure 5) Page 8. Continue filling spa until the water level is 3 inches above the filter housing see figure 4. Remember every person entering a spa displaces a given volume of water, so **adjust water level to number of people who will be entering spa.**

If your water is extremely "hard," it is preferable to fill half-way with hard water and the rest of the way with softened water. Or, you may fill the entire spa with hard water if you use a special water additive available from your spa dealer.

Always refill spa through one filter housing to purge any trapped air from pump intakes. Failure to do so may cause air to be trapped in pump #1 intake creating an air lock, preventing the pump from circulating water. Be sure that both shutoff valves are fully open. Make sure the filter cartridge is clean before installing. See "Cleaning the Filter" for specific cleaning procedures (see page 14 ).

Figure 4



Water Level 3" Above Filter Housing

## Filter Housing Assembly

Remove filter lid and rotate top filter housing counterclockwise and remove assembly. Remove filter cartridge upward and inspect element for cleanliness. With the cartridge element removed the spa is now ready to be filled using a common garden hose. Once the spa is filled with water 3 inches above the filter housing, re-install filter cartridge and housing assembly then lock it back in place and replace filter lid.

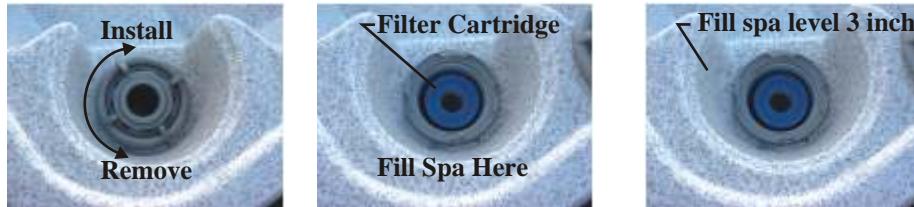


Figure 5

# START-UP INSTRUCTIONS

## Safety Check

Open the cabinet access door panel and check all pump unions to make sure they are hand tight. Loosening can occur during shipping and handling. Check Shut-Off Valves and insure both are open fully, otherwise your pumps will not function.

## Turn on Power

Turn on power to spa at the circuit breaker box. The heater and pump 1 (low speed) will automatically activate.

## Initiating Water Circulation

Depress JETS 1 topside pad on the control panel once to activate pump #1 in high speed and initiate maximum water flow to certain jets.

Depress Aux and Blower Pads on the control panel to activate pumps 2 and blower. Refer to general guidance instructions.

## Add Start-Up Chemicals

Add the spa water chemicals as recommended by your spa dealer.

## Place Cover On Spa

Keep the insulating cover in place anytime the spa is not in use. Covering the spa will reduce the time required for heating, thereby minimizing operating cost. The time required for initial heat-up will vary depending on the starting water temperature and the capacity of your spa. Smaller spas heat at a rate of approximately 8 to 10 degrees per hour; larger spas heat at about 4 to 6 degrees per hour. Lock the cover with safety locks when not in use.

**WARNING: RISK OF INJURY.** Always check water temperature carefully before entering spa.

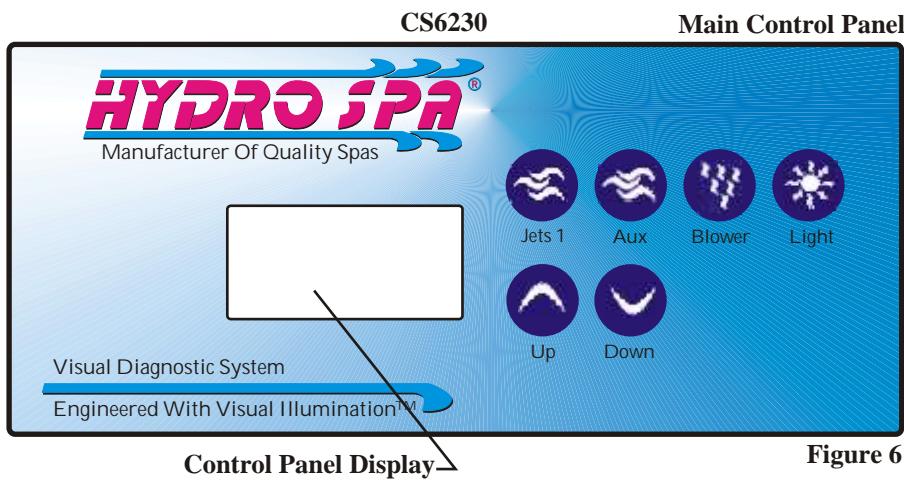


Figure 6

## Control Panel

The spa is equipped with a main control panel located on the side of the spa as show above (Figure 6).

The main control panel controls all of the spa functions, and uses indicator lights and an integrated LED display to aid in determining the status of the spa.

**Default System Operations:** When power is applied, or if there is a temporary loss of power, the system will initiate its default programming. The filter cycle will begin 24-hous after the system has been powered. The filtration cycle will be active for 2-hour and will repeat every 12-hours. The temperature will be maintained at 100 degrees F.



Pump 1 Jets 1: Press this key once to turn Pump 1 onto low speed, press this key a second time to turn Pump 1 onto high speed, a third press will turn the pump off. A built-in timer will shut the pump off after 20 minutes of operation unless done so manually. The Pump 1 icon will appear on the display while the pump is running in high speed and flash while it is in low speed. If the filter icon appears, a filtration cycle has begun and you will not be able to turn the pump off.



Pump 2 Jets 2 (if equipped): Press this key once to turn Pump 2 on. A second press will turn it off. A built-in timer will shut the pump off after 20 minutes of operation unless done so manually. The Pump 2 icon will appear while the pump is running in high speed.

# START-UP INSTRUCTIONS



Blower Key (if equipped). Press this key to turn blower on. A second press will turn blower off. Blower will run for 20 minutes once you press the blower key unless you turn it off by pressing the blower key a second time. Blower can be used to cool the spa.



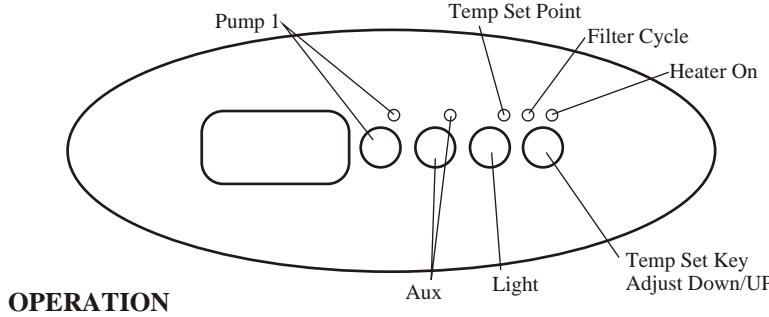
Light Key: Press this key to turn the light on. A Second press will turn the Light off. The light will automatically shut off after 2 hours. The Light icon will appear while the light is on.



Temperature Set Keys: Press the Up Arrow key to increase the desired temperature. Press the Down Arrow keys to decrease the temperature. The temperature can be adjusted in 1 degree F increments from 59 degree F to 104 degree F (5 degree C to 40 degree C). The new setting will remain on the display for 5 seconds as a confirmation. During this time the Set Point icon will be appear to let you know this is the desired and not the actual temperature. After 5 seconds the display will return to the current temperature reading. When the temperature drops to 1 degree F below the set temperature, the heater will be turned on until the temperature is 1 degree F above the set temperature. The heater icon will appear while the heater is on and flash when there is a call for heat and the heater has not yet been activated.

## CS6200 (Model 510)

### TOP SIDE CONTROL BUTTONS



Default System Operation: When power is applied, or if there is a temporary loss of power, the system will initiate its default programming. The filter cycle will begin 24-hours after the system has been powered up. The filtration cycle will be active for 2-hours and will repeat every 12-hours. The temperature will be maintained at 100 degrees F. (Default setting can change) with or without notice.



Pump 1 Key (Jets 1): Press this key once to turn Pump 1 onto Low Speed, press this key a second time to turn Pump 1 onto High Speed, a third press will turn the Pump off. A built-in timer will shut the pump off after 20 minutes of operation unless done so manually. The Pump 1 indicator wil illuminate while the pump is running. If the filter cycle indicator is illuminated, a filtration cycle has begun and you will not be able to turn the pump off.



If Equipped with Blower:

Press this key to turn the blower on. A second press will turn blower off. Blower will run for 20 minutes once you press the blower key unless you turn it off by pressing the blower key a second time. Blower can be used to cool water in spa.



Light Key: Press this key to turn the Light on and off. The light will automatically shut off after 2 hours.



Temperature Set Keys: Press the Temperature Set Key Up/Down to increase the desired temperature. Press the Temperature Set Key Up/Down to decrease the temperature. The temperature can be adjusted in 1 degree F increments from 59 degrees F to 104 degrees F (5 degrees C to 40 degrees C). The new setting will remain on the display for 5 seconds as a confirmation. During this time the Temperature Program indicator will illuminate to let you know this is the desired and not the actual temperature. After 5 seconds the display will return to the current temperature reading. When the temperature drops to 1 degree F below the set temperature, the heater will be turned on until the temperature is 1 degree F above the set temperature. The heater On indicator will illuminate while the heater is on and flash when there is a call for heat and the heater has not yet been activated.

## PROGRAMMING FILTRATION

You may choose to filter the spa 1, 2, or 3 times per day as required to keep the water clean and sanitary. Duration and frequency of a filtration cycle is user programmable.

FC - Filtration Cycle. To set frequency press and hold Jets 1 Key for 5 seconds. Use the Temperature Keys to set FC frequency (1, 2, or 3 times a day). To save the data press the Jets 1 Key within 5 seconds after adjustment. If the Jets 1 Key is pressed a second time within 5 seconds after adjustment the data will be saved and AC will start immediately. If the Key is not pressed the data will be saved and AC will start 12 hours later. (Default setting is twice per day).

FC duration setting. To set duration press and hold Light Key for 5 seconds. Use the Temperature Keys to set FC duration (60, 120, 180, 480 minutes). To save the data press the Light Key with in 5 seconds after adjustment. If the Light Key is pressed a second time with in 5 seconds after adjustment the data will be saved, and FC will start immediately. If the Key is not pressed the data will save and FC will start 12 hours later. (Default setting is 120 minutes). On some spas, default setting can be different.

Power Loss - Any interruption of power will cause the unit to reset and revert to the default programming of 100 degrees F set point temperature and twice per day, 2 hours filtration cycles.

## ADDITIONAL FEATURES

To prevent overheating of the spa water, the filtration cycle will be suspended any time the temperature reaches 4 degrees F above the set temperature for 3 hours. If the spa water cools to 1 degree F above the set temperature while the filtration cycle is still active (filter indicator flashing) the filtration cycle will reactivate. The filtration cycle will be suspended if the user enters the spa and activates a pump or blower manually. This is to prevent unnecessary operation of the ozonator. The cycle will be suspended for 40 minutes beyond the last manual activation of any accessory. The filter indicator will flash on the display while the filter cycle is suspended.

**Smart Winter Mode:** If the system detects ambient conditions below a present factory setting, the system will automatically activate the Smart Winter Mode for a period of 24 hours. In this mode, if a pump has not been powered in the last 2 hours, the system will turn it on for one minute to prevent freezing. The filter Mode light indicator will flash while the pump is running in this mode. Note: If you notice the pump coming on every 2 hour, this is the most likely cause. The Smart Winter Mode will continue for a 24-hour period. This activity is normal and is the system protection against freezing.

**Over Temperature Protection:** If the water temperature exceeds 112 degrees F at the Temperature sensor 3 flashing dots will appear below the temperature display and the heater as well as all other outputs will shut off. After the water has cooled down power to the spa must be cycled on then off to reset the system. If the spa water temperature does not seem to be elevated, the error indication may have been caused by poor water flow or electrical line interference (thunderstorms, voltage surges, etc.). Simply reset and monitor the system.

## ERROR IDENTIFICATION (CS6200, CS6230)



### Three Flashing Dots with Pump Off

**Pressure or Flow Switch Activated:** If 3 flashing dots appear below the temperature display while there is no pump operating, turn on the pump. If the 3 flashing dots stop this indicates that the pressure or flow switch was activated although there was no water flow. (Contact your spa dealer or manufacturer).



### Three Flashing Dots with Pump On

**Pressure or Flow Switch Not Activated:** If 3 flashing dots appear below the temperature display while the pump(s) is operating, turn the pump(s) off. If the 3 flashing dots stop this indicates that the pressure or flow switch was not activated although there was water flow. Note: A dirty filter limiting the water flow will also cause this error message to appear. (Contact your spa dealer or manufacturer).



If the display shows a constant 32 degree F or 125 degree F and this is not the actual temperature or the displayed temperature greatly differs from the actual spa water temperature, a problem with the water temperature sensor has occurred. (Contact your spa dealer or manufacturer).



### High Temperature

If 3 flashing dots below the temperature display and the temperature displayed is 115 degrees F or higher, and over temperature condition has occurred and service is needed. (Contact your spa dealer or manufacturer).

**Figure 7**

For Simplicity CS6230 main control panel shown in fig. 7, same error identification is for the CS6200 main control panel.

## TROUBLESHOOTING

### **Nothing Operates**

Main Breaker is Off - Set to On.

Sub-Panel Breaker Off - Set to On.

Equipment GFCI Off - Set to On.

Power switch in Off position - Set to On

Over or High Temperature Protection On - Refer to Error Identification (High Temperature)

### **System Fuse Indicator Illuminated**

Replace system fuse

If power to electrical pack is OK (check L1 & L2 power using power test switch) - Replace circuit board or pack

### **No, Low Or Surging Water Flow**

Air Lock in Plumbing System - "Bleed" the system.

Restricted Flow - Insure that the water slide valves are open and that suction fittings are not blocked by debris.

Dirty Filter - Clean or replace filters.

Low Water Level - Increase water level to recommended level.

### **No Filtration Cycle**

Water temperature is 4 degrees above set point - Remove spa cover. If the water temperature cools down 1 degree above set point the pump resumes operation.

### **No Pump 1**

Pump 1 cord not plugged into receptacle - Plug pump 1 into red receptacle.

Pump 1 fuse indicator illuminated - Replace Pump 1 fuse and resume normal operation.

Pump 1 red plug not illuminated - Replace Circuit board.

### **No Pump 2 (if equipped)**

Pump 2 cord not plugged into receptacle - Plug pump 2 into pink receptacle.

Aux. fuse indicator illuminated - Replace Aux. fuse and resume normal operation.

Pump 2 pink plug not illuminated - Replace Circuit board.

### **No Air Blower Operation**

Blower cord not plugged into receptacle - Plug Blower into purple receptacle

Aux. fuse indicator illuminated - Replace Aux. fuse.

Blower purple plug not lit - Replace Circuit Board.

Blower purple plug lit - Replace blower or blower cord.

### **No Therapy Jet Operation**

Jets Not Properly Adjusted - Adjust Jets properly.

Thermal Overload Tripping - Check for restricted flow of water.

Over or High Temperature error - Off-On power to reset.

### **Water Leaks**

Spa Overfilled - Adjust water level.

Too Many People in the Spa - Adjust water level.

Drain-Valve Left Open - Close drain valve.

Couplings or Unions Loose - Tighten or contact your local dealer, or manufacturer.

Plumbing / Connections Leaking - Contact manufacturer.

Water in Air Blower Plumbing - Contact manufacturer.

# TROUBLESHOOTING

## No Heat

Temperature Not Set Correctly - Adjust Set Point.

Over temperature error.- Off - On power to reset.

Current Limiting Jumper Is On - LC System (jumper 1 on CB is in right side pos on board.) Will not heat if High Speed or Blower is on. Contact manufacturer.

No Power - Reset breaker at service panel.

Low Water Flow - Clean or Replace filters(s).

Pressure switch is open - Replace pressure switch with correct setting 1.75 psi.

Low Water level -Add water to spa.

## Over Heat

Temperature Sensor Not in Dry-Well - Place sensor in dry-well.

Temperature Set Too High - Adjust Set Point.

High Ambient Temperature - Remove spa cover.

## GFCI Trips Occasionally

Lightning or Electrical Storm, Power Surge, Extremely Humid Conditions, or Radio Frequency Interference - Reset GFCI.

**NOTE:** GFCI must be properly grounded and bonded.

## GFCI Trips Immediately

Defective Component - Contact a qualified service technician or manufacturer for assistance.

## Spa Side Control Malfunction

Spa side control cord not plugged - Plug spa side control into system circuit board.

System fuse indicator illuminated - Replace System fuse or replace spa side control.

## No Ozone (Ozone generator follows the low speed pump activated in filtration cycle)

Ozone generator yellow cord not illuminated (Low Speed Pump on, Filter Cycle Icon Is On) - Replace electrical pack.

Ozone generator is off and low speed pump is on, and filter cycle icon is on. Yellow cord illuminated - Replace ozone generator.

Notes: Ozone generator suspends if pump 1, pump 2 or the blower key is pressed.

**Spa side control display show a constant 32F or 125F** - Check temperature sensor connection to board. If problem is not resolved replace the temperature sensor.

# SPA CARE AND MAINTENANCE

## Draining Your Spa

Remove screws from cabinet panel door and set aside as shown below.

- Turn power off
- Select a safe suitable drainage area capable of safely assimilating 300 plus gallons of water, which may contain both unsanitary contaminants and chemical residue that could cause harm to plants or grass.
- Twist the drain fitting counter clockwise to open valve, and pull outward to open completely. Remove cap and connect garden hose and drain.
- The spa will drain by gravity flow.
- Replace cap and push the connector in and turn clockwise to close valve.
- Refill the spa through the filter shown on figure 5 (Page 8) before restoring power.

## Filter Cleaning and Cartridge Replacement

The filter(s) in your spa should be cleaned at least every 5-6 weeks, depending on spa usage. This will ensure that the water is being filtered properly, and there is no restriction in the filter due to dirt and grease build-up. Turn off spa, remove filter lid and set aside. Remove filter skimmer basket by turning counterclockwise. Remove filter element and replace. Reinstall skimmer basket clockwise and turn spa back on.

Cleaning the filter can be done easily using a Filter Degreaser solution and following the directions on the bottle. Soak filter in a degreaser and power wash with a garden hose. It is recommended to have a second filter, which can be cleaned between filter changes. This will enable you to quickly exchange the dirty filter with a clean filter and immediately re-start your spa.



Filter Element

## Care Of The Exterior

### Spa Shell

Your spa shell is made of acrylic. Stains and dirt generally will not adhere to the surface. Using a soft rag or a nylon scrubber should easily remove most dirt. Most household chemicals are harmful to your spa's shell. See your dealer for the best product to use. The only products which have passed the manufacturer's test are Soft Towel and Windex. Sodium bicarbonate (baking soda) can also be used for minor surface cleaning. Always thoroughly rinse off any spa shell cleaning agent with fresh water.

**NOTES:** Iron and copper in the water can stain the spa shell if allowed to go unchecked. Ask your Hydro Spa dealer about a stain and scale inhibitor to use if your spa water has a high concentration of dissolved minerals.

The use of alcohol or any household cleaners other than those listed to clean the spa shell surface is NOT recommended. **DO NOT** use any cleaning products containing abrasives or solvents since they may damage the shell surface. **NEVER USE HARSH CHEMICALS!** Damage to the shell by the use of harsh chemicals is not covered under the warranty.

**IMPORTANT:** Some surface cleaners contain eye and skin irritants. Keep all cleaners out of the reach of children and use care when applying.

### Maintenance Free Cabinet

Spas consist of a rigid polymer that combines the durability of plastic with the beauty of a redwood or gray cabinet. The spa cabinet will not crack, peel, blister or delaminate. Cleaning consists of simply spraying the cabinet with a mild soap and water solution to remove any stains and residue.

# SPA CARE AND MAINTENANCE

## Care Of Spa Cover

### To clean and condition the vinyl cover:

- Remove the cover from the spa and gently lean it up against a wall or fence.
- Using a garden hose, spray the cover to loosen and rinse away any dirt or debris.
- Using a sponge and/or a soft bristle brush, and using a very mild soap solution (one teaspoon dishwashing liquid with two gallons of water), or baking soda (sodium bicarbonate), scrub the vinyl top in a circular motion. Do not let the vinyl dry with a soap film on it before it can be rinsed clean.
- Scrub the cover's perimeter and side flaps. Rinse clean with water.
- Rinse off the underside of the cover with water only (use no soap), and wipe it clean with a dry rag.
- To condition the cover after cleaning, apply a thin film of vinyl cleaner to the surface and buff to a high luster.

### Important reminders:

- DO NOT walk or stand on top of cover (unless you own a "walk-on-cover").
- DO remove snow buildup to avoid breakage of the foam core from the additional weight of the snow.
- DO lock cover locking straps to secure the cover when the spa is not in use.
- DO NOT drag or lift the spa cover using either the flaps, or the cover lock straps.

## Vacation Care Of Spa

Following these instructions to ensure that the water quality of your spa is maintained:

### For Short Periods (3 to 5 days)

Adjust the pH

Sanitize the water

Lock cover for safety

### For Long Periods (5 to 14 days)

Set temperature to its lowest level approximate water temperature of 80°F.

Adjust the pH

Sanitize the water

Lock cover for safety

## Return Procedures

Sanitize the water following shock procedures

Return water temperature to original setting

Insure chlorine level had dropped below 5.0 ppm

**NOTE:** If you plan on not using your spa for periods exceeding 14 days, you may ask a family member or neighbor to assist with your spa maintenance, and if not available you will need to drain or winterize spa.

## Winterizing Your Spa

During the cold weather you may not wish to use your spa outside. In this case you may move it to a heated area, or leave it until the weather warms up.

**WARNING:** Allowing your spa water to freeze will cause severe damage to the spa shell, equipment, and plumbing and **WILL VOID THE WARRANTY.**

### The following steps should protect your spa from freezing:

- Disconnect the spa from the power supply.
- Remove the screws holding your spa excess panel door.
- Open the valve and the spa will drain by gravity flow.
- Remove the filter cartridge, then clean and store in a dry place.
- Attach a wet/dry shop vac (capable of blowing air as well as vacuuming) into the filter housing.
- Turn blower on and allow it to blow out any water remaining in the plumbing lines. (Should take no more than 5 minutes).
- Reinstall the filter housing.
- Use the shop vac to remove water inside spa blown through jets.
- Use a shop vac and clean towel and remove any remaining water from bottom of spa until dry.
- Leave the drain open.
- Close the spa cover and fasten with tie down safety locks.

# WATER QUALITY AND MAINTENANCE

## Your Water In Your Spa

The quality of your water in your spa is important to keeping it clean. Your dealer can guide you through the process of achieving and maintaining perfect water in your spa in your given local conditions. Your program will vary depending on your water's mineral content, and how often you use your spa, and the amount of people using it.

### Here are our suggested step-by-step procedures:

General Information - The three fundamental areas of water maintenance.

\* Water Filtration      \* Chemical Balance/pH Control      \* Water Sanitation

A water sanitizer will chemically control the bacteria and viruses present in the fill water or introduced during the use of the spa. Bacteria and viruses can grow quickly in undersanitized spa water.

The water's chemical balance and pH control are also your responsibility. You will have to add chemicals to maintain proper levels of Total Alkalinity (TA), Calcium Hardness (CH) and pH. Proper water balance and pH control will minimize scale buildup and corrosion of metals, extend the life of the spa, and allow the sanitizer to work at maximum efficiency.

## Methods For Testing Spa Water

Accurate water testing and analysis are an important part of effectively maintaining your spa water. You must have the ability to test for:

- Total Alkalinity (TA)
- pH
- Calcium Hardness (CH)
- Sanitizer

### Two types of testing methods are recognized and recommended:

- **Reagent Test Kit** is a method which provides a high level of accuracy. They come in either liquid or tablet form.
- **Test strips** are a convenient testing method used by many spa owners. Keep in mind that test strips are susceptible to heat and moisture.

## Basic Chemical Safety

When using chemicals, always read the labels carefully and follow directions. Though chemicals protect you and your spa when used correctly, they can be hazardous in concentrated form. Observe the following guidelines:

- Allow only a responsible person to handle spa chemicals. **KEEP OUT OF THE REACH OF CHILDREN.**
- Accurately measure the exact quantities specified, never more. Do not overdose your spa.
- Handle all containers with care. Store in a cool, dry well ventilated place.
- Always keep chemical containers closed when not in use. Replace caps on their proper containers.
- Don't inhale fumes or allow chemicals to come in contact with your eyes, nose, or mouth. Wash your hands immediately after each use.
- Follow the emergency advice on the product label in case of accidental contact or if the chemical is swallowed. Call a doctor or the local Poison Control Center. If a doctor is needed, take the product container along with you so that the substance can be identified.
- Don't let chemicals get on surrounding surfaces or landscaping. Rinse off with fresh water if spilled.
- Never smoke around chemicals. Some of the fumes can be highly flammable.
- Don't store chemicals in the spa equipment compartment.

## Adding Spa Chemicals:

- Fold back the spa cover. Carefully remove and set aside the filter lid.
- Push the **JETS1** button to turn on the pump.
- Carefully measure the recommended amount of chemical and slowly pour it into the filter compartment. Use care not to splash chemicals on your hands, eyes, or on the spa shell surface or cabinet.
- Replace filter lid and run spa for 10 minutes on high speed. Re-install spa cover.

**IMPORTANT:** Super Chlorination/Non-Chlorine Shock Treatment - **NOTE:** After administering a super chlorination treatment or non-chlorine shock to your spa, leave the cover open for a minimum of 20 minutes to allow the oxidizer gas to vent. A high concentration of trapped oxidizer gas which may exist as a result of the shock treatment (not daily sanitation) may eventually cause discoloration or vinyl degradation to the bottom of the cover. This type of damage is considered chemical abuse and is not covered under the terms of the limited warranty of the spa cover.

# WATER QUALITY AND MAINTENANCE

## Balancing Total Alkalinity (TA)

- The recommended Total Alkalinity (TA) for your spa water is 125-150 ppm.
- Total Alkalinity is a measure of the total levels of carbonates, bicarbonates, hydroxides, and other alkaline substances in the water. TA is referred to as the water's "pH buffer". It's a measure of the ability of the water to resist changes in pH level.
- If the TA is too low, the pH level will fluctuate widely from high to low. Fluctuations in pH can cause corrosion or scaling of spa components. Low TA can be corrected by adding pH/Alkalinity UP (sodium hydrogen carbonate).
- If the TA is too high, the pH level will tend to be high and may be difficult to bring down. It can be lowered by adding pH/Alkalinity down (sodium bisulfate).
- Once the TA is balanced, it normally remains stable, although the addition of more water with a high or low alkalinity will raise or lower the TA reading of the water.
- When the Total Alkalinity is within the recommended range, proceed.

## Balancing Calcium Hardness (CH)

- The recommended Calcium Hardness (CH) level for your spa is 150-200 ppm.
- Calcium Hardness is a measure of the total amount of dissolved calcium in the water. Calcium helps control the corrosive nature of the spa's water. That's why calcium-low water (commonly known as "soft" water) is not recommended. It is very corrosive to the equipment, and can cause staining of the spa shell. If the calcium level is too low, we recommend using Calcium Increaser to bring the calcium hardness level to within the recommended range.
- If the CH is too high (commonly known as "hard" water), formation of scale on the spa's shell surface and equipment can result. CH can be decreased by dilution - a mixture of 75% hard and 25% soft water will be a good starting point. If soft water is not available, or practical for you, a stain and scale control such as Scale Defense should be added to the spa water, according to instructions on its label.
- Once the CH is balanced, it normally remains stable, although the addition of more water with a high or low calcium content will raise or lower the CH reading of the water.
- When the Calcium Hardness is within the recommended range, proceed.

## Balancing The pH

- The recommended pH level for your spa water is 7.4-7.6.
- The pH level is the measure of acidity and alkalinity. Values above 7 are alkaline; those below 7 are acidic.

### Maintaining the proper pH level is extremely important:

- Optimizing the effectiveness of the sanitizer.
- Maintaining water that is comfortable for the user.
- Preventing equipment deterioration.

### If the spa water's pH level is too low, the following may result:

- The sanitizer will dissipate rapidly.
- The water may become irritating to spa users.
- The spa's equipment may corrode.

### If the pH level is too low, it can be increased by adding pH/Alkalinity Up (sodium hydrogen carbonate) to the spa water.

### If the pH level is too high, the following may result:

- The sanitizer is less effective.
- Scale will form on the spa shell surface and the equipment.
- The water may become cloudy.
- The filter cartridge pores may become obstructed.

### If the pH is too high, it can be decreased by adding pH/Alkalinity Down (Sodium bisulfate) to the spa water.

**NOTE: After adding pH/Alkalinity Up (sodium hydrogen carbonate) or pH/Alkalinity Down (sodium bisulfate), wait at least two hours before testing the water for pH. Measurements taken too soon may not be accurate.**

- It is important to check the pH on a regular basis. The pH will be affected by the bather load, the addition of new water, the addition of various chemicals, and the type of sanitizer used.
- When the pH is within the recommended range, proceed.

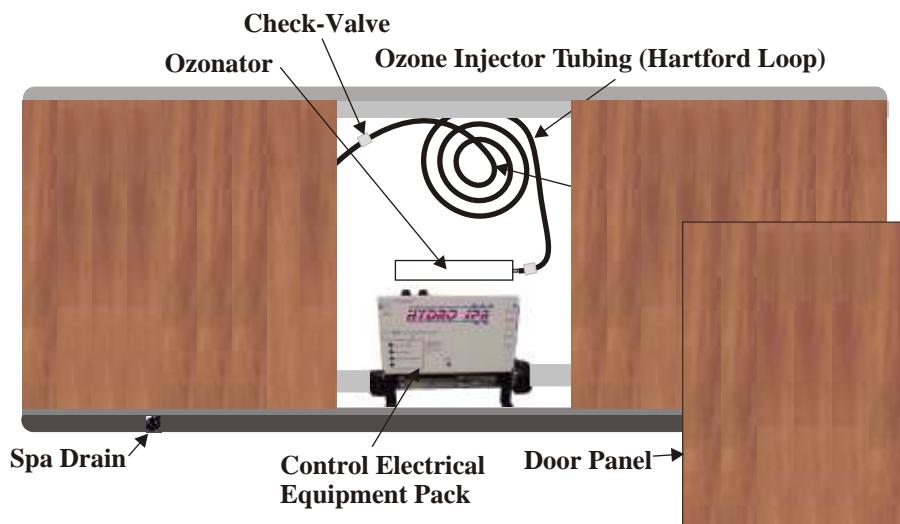
# WATER QUALITY AND MAINTENANCE

## Maintaining Sanitizer Level

- Sanitizer is extremely important for killing algae, bacteria and viruses, and preventing unwanted organisms from growing in the spa. At the same time, you don't want too high a sanitizer level, or it can irritate your skin, lungs, and eyes.
- Always maintain the sanitizer level in your spa at the recommended level for each type of sanitizer.

## Ozone

The Ozonation System in your spa drastically reduces the need for chemicals in the water.



## Water Terminology

**Bromamines:** Compounds formed when bromine combines with nitrogen from body oils, urine, perspiration, etc. Unlike chloramines, bromamines have no pungent odor, and are effective sanitizers.

**Bromine:** A halogen sanitizer (in the same chemical family as chlorine). Bromine is commonly used in stick, tablet, or granular form.

**Calcium Hardness:** The amount of dissolved calcium in the spa water. This should be approximately 150-220 ppm. High levels of calcium can cause cloudy water and scaling. Low levels can cause harm to the spa equipment.

**Chloramines:** Compounds formed when chlorine combines with nitrogen from body oils, urine, perspiration, etc. Chloramines can cause eye irritation as well as having a strong odor. Unlike bromamines, chloramines are weaker, slower sanitizers.

**Chlorine:** An efficient sanitizing chemical for spas.

**Chlorine (or Bromine) Residual:** The amount of chlorine or bromine remaining after chlorine or bromine demand has been satisfied. The residual is, therefore, the amount of sanitizer which is chemically available to kill bacteria, viruses and algae.

**Corrosion:** The gradual wearing away of metal spa parts, usually caused by chemical action. Generally, corrosion is caused by low pH or by water with levels of TA, CH, pH or sanitizer which are outside the recommended ranges.

**DPD:** The preferred reagent used in test kits to measure the Free Available Chlorine.

**Halogen:** Any one of these five elements: fluorine, chlorine, bromine, iodine, and astatine.

**MPS:** Monopersulfate is the non-chlorine oxidizer used with the purification system.

**Nitric Acid:** The formulation of nitric acid, a highly corrosive chemical, is a byproduct of the ozone generating process. Nitric acid is produced in very small quantities and is readily dissolved in the water stream with ozone.

**Oxidizer:** The use of an oxidizing chemical is to prevent the buildup of contaminants, maximize sanitizer efficiency, minimize combined chlorine and improve water clarity.

**Ozone:** Ozone is a powerful oxidizing agent which is produced in nature and artificially by man. Ozone forms no byproducts of chloramines (ozone actually oxidizes chloramines) and will not alter the water's pH.

**Pathogen:** A microorganism such as bacterium that cause disease.

**pH:** The measure of the spa water's acidity and alkalinity. The recommended pH for the spa water is 7.4 to 7.6. Below 7.0 (considered neutral), the spa water is too acidic and can damage the heating system. Above 7.8, the water is too alkaline and can result in cloudy water, and scale formation on the shell and heater.

## WATER QUALITY AND MAINTENANCE

**Reagent:** A chemical material in liquid, powder, or tablet form for use in chemical testing.

**Sanitizer:** Sanitizers are added and maintained at recommended residuals to protect bathers against pathogenic organisms which can cause disease and infection in spa water.

**Scale:** Rough calcium-bearing deposits that can coat spa surfaces, heaters, plumbing lines, and clog filters. Generally, scaling is caused by mineral content combined with high pH. Additionally, scale forms more readily at higher water temperatures.

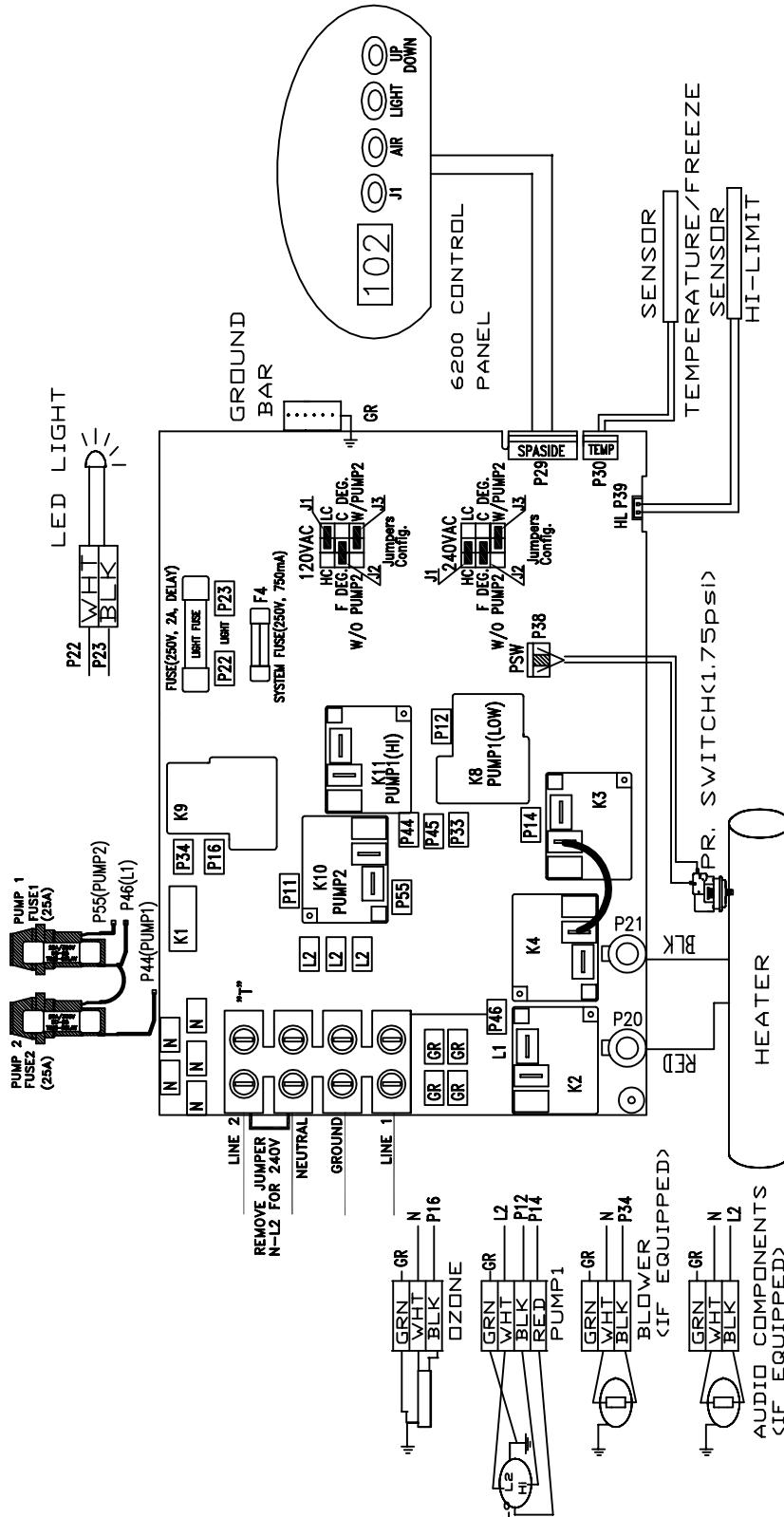
SPA WATER MAINTENANCE & TROUBLESHOOTING		
Problem	Probable Causes	Solutions
Cloudy Water	Dirty Filter/s Excess oils / organic matter Improper sanitization Suspended particles / organic matter Overused or old water	Clean filter or replace. Shock spa with sanitizer. Add sanitizer. Adjust pH and/or alkalinity Run jet pump(s) and clean filter. Drain and refill spa.
Water Odor	Excessive organics in water Improper sanitization Low pH	Shock spa with sanitizer. Add sanitizer. Adjust pH to recommended range.
Chlorine Odor	Chloramine level too high Low pH	Shock spa with sanitizer Adjust pH to recommended range.
Musty Odor	Bacteria or algae growth	Shock spa with sanitizer - if problem is visible or persistent, drain, clean and refill spa.
Organic buildup / scum ring around spa	Build-up of oils and dirt	Wipe off scum with clean rag - if severe, drain the spa, use a spa surface and tile cleaner to remove the scum, and refill spa.
Algae Growth	High pH Low sanitizer level	Shock spa with sanitizer and adjust pH Shock spa with sanitizer and maintain sanitizer level.
Eye Irritation	Low pH Low sanitizer level	Adjust pH. Shock spa with sanitizer and maintain sanitizer level.
Skin Irritation / Rash	Unsanitary water Free chlorine level above 5 ppm	Shock spa with sanitizer and maintain sanitizer level. Allow free chlorine level to drop below 5 ppm.
Stains	Total alkalinity and/or pH too low High iron or copper in source water	Adjust total alkalinity and/or pH. Use a metal deposit inhibitor.
Scale	High calcium content in water - total alkalinity and pH too high	Adjust total alkalinity and pH - If scale requires removal, drain the spa, scrub off the scale, refill the spa and balance the water.

## SPA CARE AND MAINTENANCE RECORD

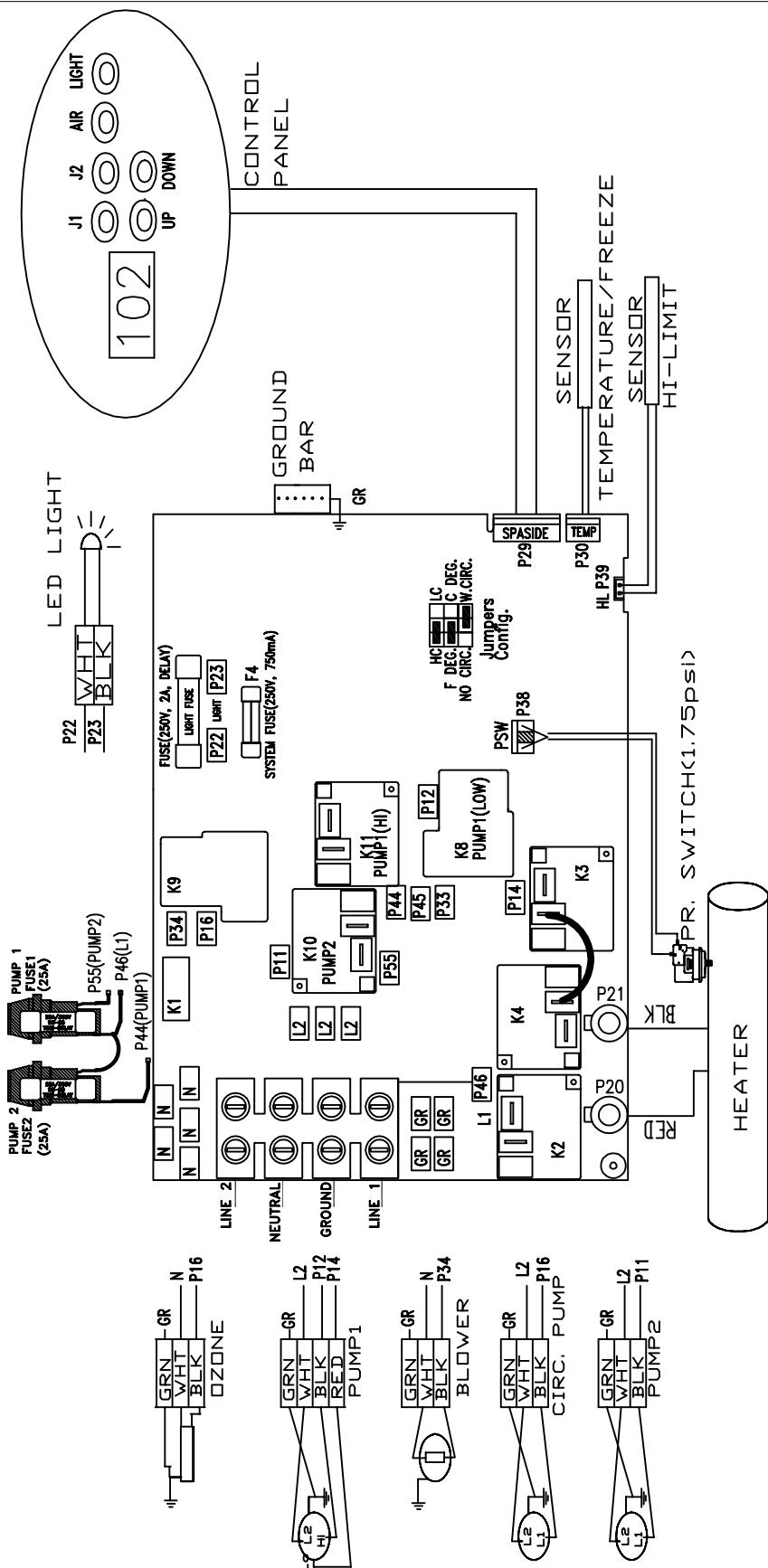
Notes: \_\_\_\_\_

# CS6200 ELECTRICAL DIAGRAM

WIRING DIAGRAM WITH CS-6200-VDS CONTROLLER  
"CONVERTIBLE" (120/240VAC, 60Hz, 16/40A)



# CS6230 ELECTRICAL DIAGRAM



2005 MODEL WIRING DIAGRAM <240VAC, 60HZ, 48AMP>  
 CS-6230C-VDS CONTROLLER  
 USE COPPER WIRE MIN. 6 AWG

## W A R R A N T Y

This warranty applies to all 10 series spas sold on or after June 1, 2005.

### Shell Structural Warranty - Lifetime

Hydro Spa warrants the 10 Series spa shell structure against the loss of water through the fiberglass laminate of the shell caused by defects in materials and workmanship for as long as the original purchaser owns the spa.

### Manifold Plumbing Lifetime

Hydro Spa warrants the 10 Series plumbing manifolds to be free of defects in materials or workmanship for as long as the original purchaser owns the spa.

### Surface Warranty 5 year Limited

Hydro Spa warrants the 10 Series interior acrylic spa surface against blisters, cracks, or delaminating resulting from a defect in the acrylic surface material for a period of 5 years from the date of purchase. This limited warranty is based on the following formula: Retail cost divided by months covered (5 years = 60 months), multiplied by months owned, equals spa owners' replacement cost. Surface warranty issues should be notified to Hydro Spa by certified mail to warranty department within 30 days of finding defect or warranty will become void. Shipping and installation costs of the substitute hot tub unit are the responsibility of the spa owner making the claim. Unit to be replaced must have electrical detached and placed on ground in an area convenient for pick-up.

### Electrical Equipment 1 year

Hydro Spa warrants the 10 Series electrical equipment and components to be free of defects in materials and workmanship for a period of 1 year from date of purchase.

The Warranty Coverage's are covered by the terms of the Hydro Spa "Warranty Performance and Coverage."

#### Warranty Performance and Coverage

Please register your spa within 30 days of delivery by mailing in your warranty registration card found in this manual or by registering on at [www.hydrospa.com/owners.html](http://www.hydrospa.com/owners.html). Hot tubs not purchased from an Authorized Hydro Spa Dealer are specifically excluded from warranty coverage of any kind. Hydro Spa will, at its sole option, repair or replace any hot tub or component found to be defective under the terms and conditions of this warranty. Hydro Spa reserves the right to substitute a hot tub or component of equivalent value, either new or factory reconditioned and any such repair or replacement shall assume as its warranty only the remaining portion of the warranty on the original product. Labor service shall run concurrent with the "Electrical Equipment" warranty and no charge will be made for parts or labor. Hydro Spa or Hydro Spa Authorized Technicians/Dealers who perform labor service to a spa owner beyond 30 miles of the registered service location may subject spa owner to reasonable travel costs.

The cost of shipping warranty parts to the spa owner is the responsibility of Hydro Spa. Spa owner must return defective part(s) to Hydro Spa within 30 days of the noted defect and Hydro Spa may collect spa owner credit card information to secure defective part(s) return. Failure to return defective parts will result in a charge on spa owners credit card. Hot tub surface repairs will be made to function satisfactorily and an exact color match may not be possible. Non-defective replacement parts required to perform or complete warranty repairs will be covered from the original spa purchase date. Contact your dealer if you have questions concerning warranty issues, prior to contacting Hydro Spa. In the absence of a local Authorized Hydro Spa Dealer, to obtain warranty service, either complete the web link at [http://www.hydrospa.com/service\\_request.html](http://www.hydrospa.com/service_request.html) or notify in writing "Hydro Spa, Attention Warranty Service, 13055 49<sup>th</sup> Street N., Clearwater, FL 33762," or call 727-573-9611 within 30 days of the time the problem becomes apparent. Hydro Spa must preauthorize the return of all defective spas and parts. Hydro Spa always reserves the right to inspect any spa.

#### Exceptions to Warranty

The following items are specifically excluded from any warranty coverage:

1. Damage caused by failure to follow procedures in the owner's manual.
2. Damage caused by improper installation or installing the hot tub on unstable surface, or by moving the hot tub.
3. Hydro Spa hot tubs when empty of water and left in direct sunlight without the hot tub cover in place are vulnerable to ultraviolet or solar damage. Temperatures generated by sunlight can become concentrated in the shell surface causing shell surface to delaminate. This occurrence is considered abuse and may result in surface blisters, bubbles, or large layer delaminating. The hot tub cover must be kept on the hot tub while empty of water.
4. Any alterations, misuses, abuses, or if any repairs are attempted by anyone other than an authorized representative of Hydro Spa except with the express verbal or written permission from Hydro Spa warranty or technical personnel.
5. Hot tub surface damage or discoloration or discoloration of spa jets or pillows resulting from improper maintenance including but not limited to; the use of sanitizers such as Tri-Chlor, calcium hypochlorite, sodium hypochlorite, and/or any chemical that may dissolve or remain undissolved on the hot tub shell or cabinet surface. Damage or stain caused by mineral or chemical content of the hot tub water.
6. The hot tub cover is not manufactured by Hydro Spa and any warranty claim must be made through the cover manufacturer.
7. The hot tub filter lid is not designed to support heavy weight loads and should not be used as a seat. In extreme cases the lid could crack and break. This occurrence is not covered under warranty. Damage caused by improper or incorrect electrical hook-up. In all cases the electrical hook-up directions in the owner's manual should be followed NOT those on the spa electrical box.
8. Hot tub pillows, hot tub light bulb and lenses, hot tub filter element, outside cabinet panels, fuses, and hot tub jets, and stereo fuses. These items are only warranted at the time of spa delivery.
9. Damage resulting from operating the hot tub at a water temperature outside the range of 33 degrees F to 118 degrees F (0.5 C to 48 C) for any reason.
10. Damage caused by normal use.
11. Use of hot tub in a non-residential application.
12. All hot tub accessories including but not limited to, spa steps, cover lifter, chemical kits, and add-on jet accessories.
13. Cracks are defined as a break in the shell that goes all the way through the shell. Scratches and cosmetic gouges are not considered cracks.
14. Acts of nature, accidents, or other causes beyond the control of Hydro Spa.

#### Disclaimers

The spa owner is required to provide adequate access to the spa for any repair or inspection. Hydro Spa shall not be liable for loss of use of the spa or other incidental or consequential costs, expenses, or damages, which may include but are not limited to water damage, or the removal of a deck or custom fixture. Under no circumstances shall we or any of our representatives be held liable for injury to any person or damage to any property, however arising. This warranty gives you specific legal rights and you may have other rights. No Agent, Dealer, Service Company, or other party is authorized to change, modify, or extend the terms of this warranty in any manner whatsoever.

Warranty coverage is extended to the original consumer purchaser for personal, family or household use, from the date of original purchase within the boundaries of United States and cannot be assigned or transferred by the original purchaser to any person or entity.

# W A R R A N T Y C A R D

**Cut out and mail in!**

## IMPORTANT WARRANTY INFORMATION

The Warranty Card Must Be Filled Out Completely and Mailed Within Ten (30) Days of Purchase To Validate Warranty.



By signing this warranty  
card you have read &  
understand the owners  
manual in its entirety.

STORE PURCHASED FROM  
ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_

PHONE NUMBER: (\_\_\_\_) - \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

PLEASE PRINT

MODEL: \_\_\_\_\_ (8 Digit Number)

SPA SERIAL NO.: \_\_\_\_\_

CUSTOMER NAME: \_\_\_\_\_

CUSTOMER ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ Zip: \_\_\_\_\_

CUSTOMER PHONE NO: (\_\_\_\_) - \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_



## Owner's Manual

P R E M I U M   L E I S U R E   P R O D U C T S  
13055 49th St. N.  
Clearwater, Florida 33762  
(727) 573-9611



13055 49th St. N.  
Clearwater, Florida 33762

Place  
Stamp